CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Lab No : CTCE/BBMP/KGHG/W.No.15/CSR-03/586e/CEMENT/2017-18 Date: 08.03.2018

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K.G. Honne Gowda** #1279, 9th Main, 2nd Stage, Nagapura Road, Bangalore
* Name of Work	:	Construction of public toilet near NH 1st main Kempegowda Nagara Strom Water Drain in Ward No.15 E. Dasarahalli Zone, BBMP, Bangalore
* Reference	:	EE/DD/WO/120/2016-17 Dated : 28.01.2017
* Sample ID	:	Cement
Sample Received on	:	06.03.2018
Period of Testing	:	06.03.2018 to 08.03.2018

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA 2014)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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- Any Query regarding the report must be reported within 30 days from the date of testing.

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VIDYARANI P.K.
Technical Manager

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ಬೊಮ್ಮನಹಳ್ಳಿ, ಬೆಂಗಳೂರು
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Lab No: CTCL/ BBMP/KGHG/W.No:15/SR-03/586c/SAND-Gradation/2017-18 08.03.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.
* Agency	: **Mr. K.G. Honne Gowda** #1279, 9th Main, 2nd Stage, Nagapura Road, Bangalore.
* Name of Work	: Construction of public toilet near NH 1st main Kempegowda Nagara Strom Water Drain in Ward No.15 T. Dasarahalli Zone, BBMP, Bangalore.
* Reference	: EE/DD/WO/120/2016-17 Dated : 28.01.2017
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 06.03.2018
Date of Testing	: 08.03.2018

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.80	90-100	90-100	90-100	95-100
2.36	76.60	60-95	75-100	85-100	95-100
1.18	57.30	30-70	55-90	75-100	90-100
600 Micron	28.80	15-34	35-59	60-79	80-100
300 Micron	11.90	5-20	8-30	12-40	15-50
150 Micron	3.50	0-10	0-10	0-10	0-15

Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

Civil-Tech Consultants & Engineers Bangalore

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Ref No: CTE/BBMP/KGHG/W No.15/CSR-03/586c/AGG/GR/2017-18 08.03.2018

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.
* Agency	: **Mr. K.G. Honne Gowda** #1279, 9th Main, 2nd Stage, Nagapura Road, Bangalore
* Name of Work	: Construction of public toilet near NH 1st main Kempegowda Nagara Strom Water Drain in Ward No.15 T. Dasarahalli Zone, BBMP, Bangalore.
* Reference	: EE/DD/WO/120/2016-17 Dated : 28.01.2017
* Sample ID	: Coarse Aggregates (40mm)
Technical Reference	: IS : 2386 (Part I) -1963 (RA-2011)
Sample Received on	: 06.03.2018
Date of Testing	: 08.03.2018

Total Wt. of Aggregates in gms = **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.20	95-100	85-100
20	37.60	30-70	0-20
10	14.70	10-35	0-5
4.75	2.40	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.
* Agency	: **Mr. K.G. Honne Gowda** #1279, 9th Main, 2nd Stage, Nagapura Road, Bangalore.
* Name of Work	: Construction of public toilet near NH 1st main Kempegowda Nagara Storm Water Drain in Ward No.15 T. Dasarahalli Zone, BBMP, Bangalore.
* Reference	: EE/DD/WO/120/2016-17 Dated : 28.01.2017
* Sample ID	: Coarse Aggregates (20mm)
Technical Reference	: IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	: 06.03.2018
Date of Testing	: 08.03.2018

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	97.00	95-100	85-100
10	31.70	25-55	0-20
4.75	3.74	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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